

5th CIE Expert Symposium on Colour and Visual Appearance 2020

April 21-22, 2020

Hong Kong

Programme outline - version 2020-01-20

Tuesday, April 21		Wednesday, April 22	
Morning		Morning	
OPENING			
PA1 Visual perception of materials		PA4 Physical measurement of the optical properties of materials	
4 presentations (15 min) + discussion at the end (20 min)		4 presentations (15 min) + discussion at the end (20 min)	
COFFEE BREAK		COFFEE BREAK	
PA2 Appearance Applications and Phenomena (1)		PA5 Appearance Applications and Phenomena (2)	
5 presentations (15 min) + discussion at the end (25 min)		4 presentations (15 min) + discussion at the end (20 min)	
LUNCH		LUNCH	
Afternoon		Afternoon	
PA3 Augmented / Virtual Reality as a tool for studying Visual Appearance		PS2 Presented Posters (2)	
PLENARY SPEAKER (Use of Augmented / Virtual Reality) (30 min)		10 presented posters (5 minutes)	
1 presentation (15 min) + discussion at the end (10 min)		Poster Session 2	
COFFEE BREAK		COFFEE BREAK	
PS1 Presented Posters (1)		Workshop INDUSTRY MEETS ACADEMIA	
10 presented posters (5 minutes)		CLOSING	
Poster Session 1			

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Detailed programme - version 2020-01-10

Tuesday, April 21 Morning		
08:00	REGISTRATION	08:00
09:00	OPENING	09:00
09:10 - 10:30	PA1 Visual perception of materials (Chair: TBD)	09:10 - 10:30
09:10 - 09:25	OP01 Kawashima, Yuki, US CHANGE OF PERCEIVED CHROMA AND HUE OF OBJECT COLOURS AT DIFFERENT LIGHTING LEVELS DUE TO HUNT EFFECT	09:10 - 09:25
09:25 - 09:40	OP02 Oh, Semin, KR VISION EXPERIMENT II ON PERCEPTION OF CORRELATED COLOUR TEMPERATURE	09:25 - 09:40
09:40 - 09:55	OP03 Teng, Xiao, CN SUBJECTIVE EVALUATION OF COLORIZED IMAGES WITH DIFFERENT COLORIZATION NETWORKS	09:40 - 09:55
09:55 - 10:10	OP04 Ohno, Yoshi, US A COLOUR QUALITY MODEL FOR LIGHTING BASED ON HUNT EFFECT	09:55 - 10:10
10:10 - 10:30	Discussion	10:10 - 10:30
10:30	COFFEE BREAK	10:30
11:00 - 12:20	PA2 Appearance Applications and Phenomena (1) (Chair: TBD)	11:00 - 12:20
11:00 - 11:15	OP05 Bai, Chris Yi-Ho, TW OBSERVER CMF BASED VISUAL APPEARANCE COMPENSATION FOR NOVEL LIGHT SOURCE PROJECTION SYSTEM	11:00 - 11:15
11:15 - 11:30	OP06 Hu, Yu, CN A VISUAL MATCHING EXPERIMENT TO ASSESS OBSERVER METAMERISM OF DIFFERENT LED PRIMARY SETS	11:15 - 11:30
11:30 - 11:45	OP07 Bao, Wenyu, HK CORRESPONDING COLOURS UNDER A WIDE RANGE OF ADAPTING LUMINANCE LEVELS	11:30 - 11:45
11:45 - 12:00	OP08 Yang, Jie, HK INVESTIGATION OF L*C*H VARIATIONS OF COLOUR PALETTES ON PERCEIVED COLOUR DIFFERENCE	11:45 - 12:00
12:00 - 12:15	OP09 Jiang, Lan, CN COLOR-DIFFERENCE EVALUATION FOR 3D PRINTED OBJECTS	12:00 - 12:15
12:15 - 12:40	Discussion	12:15 - 12:40
12:40	LUNCH	12:40

Afternoon

13:40 - 14:55	PA3 Augmented / Virtual Reality as a tool for studying Visual Appearance (Chair: TBD)	13:40 - 14:55
13:40 - 14:10	PLENARY SPEAKER (use of VR/AR)	13:40 - 14:10
14:10 - 14:25	OP10 Danell, Megan, US COMPARING PERCEPTIONS OF ARTIFICIAL LIGHTING BETWEEN REAL SPACE AND VIRTUAL REALITY	14:10 - 14:25
14:25 - 14:35	Discussion	14:25 - 14:35
14:35	COFFEE BREAK	14:35
15:00 - 15:50	PS1 Presented Posters (1) (Chair: TBD)	15:00 - 15:50
15:00 - 15:05	PP01 Lin, Yandan, CN IMPACT OF RCS,HJ ON COLOR DISCRIMINATION AND VISUAL PERCEPTION BASED ON ANSI/IES TM-30-18	15:00 - 15:05
15:05 - 15:10	PP02 Lin, Yandan, CN EFFECTS OF RF AND RG ON COLOR DISCRIMINATION AND VISUAL FATIGUE	15:05 - 15:10
15:10 - 15:15	PP03 Wu, Ching-Ching, TW VISUAL PERCEPTION AND PREFERENCE OF NAIL POLISH COLOURS	15:10 - 15:15
15:15 - 15:20	PP04 Chang, Jung-En, TW REVISITING COLOUR TEMPERATURE - VISUAL PERCEPTION OF WARM/COOL FOR CHROMATIC AND ACHROMATIC COLOURS	15:15 - 15:20
15:20 - 15:25	PP05 Thorseth, Anders, DK ON THE NEED FOR A METROLOGY OF DYNAMIC LIGHTING	15:20 - 15:25
15:25 - 15:30	PP06 Xiao, Kaida, GB SKIN SPECTRA ESTIMATION FOR A CROSS-POLARISATION FACIAL IMAGING SYSTEM UNDER VARIOUS ILLUMINATIONS	15:25 - 15:30
15:30 - 15:35	PP07 Kruisselbrink, Thijs, NL HDR IMAGING FOR LUMINANCE AND MELANOPIC RADIANCE: CAMERAS AND SPECTRAL POWER DISTRIBUTIONSRACT TITLE	15:30 - 15:35
15:35 - 15:40	PP08 Vik, Michal, CZ STUDY OF INTER-INSTRUMENT AGREEMENT IN WHITENESS MEASUREMENTS	15:35 - 15:40
15:40 - 15:45	PP09 Viková, Martina, CZ STUDY OF EXPOSURE CONDITION WITH RELATION TO COLOR CHANGE OF PHOTOCHROMIC SUBSTRATES	15:40 - 15:45
15:45 - 15:50	PP10 Smid, Marek, CZ OPTIMISATION OF THE BRDF MEASUREMENT OF INTERFERENCE-BASED GONIOCHROMATIC SAMPLES	15:45 - 15:50
15:50 - 17:00	Poster Session 1	15:50 - 17:00

Wednesday, April 22 Morning

09:00 - 10:20	PA4 Physical measurement of the optical properties of materials (Chair: TBD)	09:00 - 10:20
09:00 - 09:15	OP11 Ruggaber, Benjamin, DE DEGREE OF EQUIVALENCE OF TRISTIMULUS VALUES OF LEDS UNDER CONSIDERATION OF MEASUREMENT UNCERTAINTY AND CORRELATION	09:00 - 09:15
09:15 - 09:30	OP12 Zhao, Baiyue, CN TESTING COLOUR DIFFERENCE METRICS USING HDR AND WCG DATA	09:15 - 09:30
09:30 - 09:45	OP13 Ferrero, Alejandro, ES SUITABLE VALUES FOR THE BRDF MEASUREMENT PARAMETERS OF GONIOCHROMATIC SAMPLES	09:30 - 09:45
09:45 - 10:00	OP14 Quast, Tatjana, DE UNCERTAINTY ANALYSIS FOR THE MEASUREMENT OF THE SPECTRAL RADIANCE FACTOR IN BIDIRECTIONAL GEOMETRIES	09:45 - 10:00
10:00 - 10:20	Discussion	10:00 - 10:20
10:20	COFFEE BREAK	10:20
10:50 - 12:10	PA5 Appearance Applications and Phenomena (2) (Chair: TBD)	10:50 - 12:10
10:50 - 11:05	OP15 Ma, Shining, BE CHROMATIC ADAPTATION UNDER DUAL LIGHTING CONDITIONS	10:50 - 11:05
11:05 - 11:20	OP16 Zhu, Yuechen, CN PROPOSED MODIFICATION TO THE CAM16 COLOUR APPEARANCE MODEL TO PREDICT THE SIMULTANEOUS CHROMA CONTRAST EFFECT	11:05 - 11:20
11:20 - 11:35	OP17 Zhang, Xiandou, CN COLOR RENDERING ABILITY OF LIGHT SOURCES EVALUATED BASED ON THE METAMER MISMATCHING VOLUMES OF METAMERIC BLACKS	11:20 - 11:35
11:35 - 11:50	OP18 Peng, Rui, CN PREFERRED SKIN COLOURS OF DIFFERENT ETHNIC IMAGES ON THE MOBILE DISPLAY	11:35 - 11:50
11:50 - 12:10	Discussion	11:50 - 12:10
12:10	LUNCH	12:10

Afternoon

13:10 - 14:00	PS2 Presented Posters (2) (Chair: TBD)	13:10 - 14:00
13:10 - 13:15	PP11 Chen, Siyuan, HK VIRTUAL AND REAL-WORLD ENVIRONMENTS AFFECT VIRTUAL COLORS IN OPTICAL AND VIDEO SEE-THROUGH AUGMENTED REALITY	13:10 - 13:15
13:15 - 13:20	PP12 Yoon, Seonyoung, KR DISPLAY APPEARANCE ACCORDING TO THE SIZE	13:15 - 13:20
13:20 - 13:25	PP13 Park, Hyunhee, KR COLOR APPEARANCE OF DISPLAY GLEAM COLORS	13:20 - 13:25
13:25 - 13:30	PP14 Ahmadian, Kaveh, BE OPTIMAL SPECTRUM FOR FAMILIAR OBJECTS	13:25 - 13:30
13:30 - 13:35	PP15 Lu, Yan, GB PERCEPTUAL DIFFERENCES IN ATTRACTIVENESS, HEALTHINESS AND AGE FOR FACIAL COLOUR APPEARANCE BETWEEN DIFFERENT ETHNIC GROUPS	13:30 - 13:35
13:35 - 13:40	PP16 Liu, Qiang, CN COLOUR QUALITY EVALUATION OF CHINESE BROZENWARE IN TYPICAL MUSEUM LIGHTING	13:35 - 13:40
13:40 - 13:45	PP17 Sun, Pei-Li, TW PAINTING-LIKE 3D RENDERING BASE ON PHYSICAL APPEARANCE AND DEEP LEARNING	13:40 - 13:45
13:45 - 13:50	PP18 Lu, Yang, CN CASE STUDY OF SINGLE-SHOT MULTISPECTRAL IMAGING SYSTEM	13:45 - 13:50
13:50 - 13:55	PP19 Zhuo, Li, CN EVALUATION METHODOLOGY OF LIGHT SOURCES FOR LIGHTING CHINESE PAINTINGS BASED ON THE COLOUR DIFFERENCE	13:50 - 13:55
13:55 - 14:00	PP20 Pan, Jiagen, CN RESEARCH ON SPECTRAL RESPONSIVITY MEASUREMENT OF SPHERE-PHOTOMETER SYSTEM BASED ON NUMERICAL ANALYSIS	13:55 - 14:00
14:00 - 15:15	Poster Session 2	14:00 - 15:15
15:15	COFFEE BREAK	15:15
15:45 - 17:00	Workshop INDUSTRY MEETS ACADEMIA	15:45 - 17:00
17:05	CLOSING	17:05

Colour Key

DAY
ORAL PRESENTATION
BREAK
SESSION NO./TITLE
PRESENTED POSTER
POSTER
OPENING/CLOSING CEREMONY

Poster Session 1

PO01 (PP01)	Lin, Yandan, CN	IMPACT OF RCS,HJ ON COLOR DISCRIMINATION AND VISUAL PERCEPTION BASED ON ANSI/IES TM-30-18
PO02 (PP02)	Lin, Yandan, CN	EFFECTS OF RF AND RG ON COLOR DISCRIMINATION AND VISUAL FATIGUE
PO03 (PP03)	Wu, Ching-Ching, TW	VISUAL PERCEPTION AND PREFERENCE OF NAIL POLISH COLOURS
PO04 (PP04)	Chang, Jung-En, TW	REVISITING COLOUR TEMPERATURE - VISUAL PERCEPTION OF WARM/COOL FOR CHROMATIC AND ACHROMATIC COLOURS
PO05 (PP05)	Thorseth, Anders, DK	ON THE NEED FOR A METROLOGY OF DYNAMIC LIGHTING
PO06 (PP06)	Xiao, Kaida, GB	SKIN SPECTRA ESTIMATION FOR A CROSS-POLARISATION FACIAL IMAGING SYSTEM UNDER VARIOUS ILLUMINATIONS
PO07 (PP07)	Kruisselbrink, Thijs, NL	HDR IMAGING FOR LUMINANCE AND MELANOPIC RADIANCE: CAMERAS AND SPECTRAL POWER DISTRIBUTIONSRACT TITLE
PO08 (PP08)	Vik, Michal, CZ	STUDY OF INTER-INSTRUMENT AGREEMENT IN WHITENESS MEASUREMENTS
PO09 (PP09)	Viková, Martina, CZ	STUDY OF EXPOSURE CONDITION WITH RELATION TO COLOR CHANGE OF PHOTOCROMIC SUBSTRATES
PO10 (PP10)	Smid, Marek, CZ	OPTIMISATION OF THE BRDF MEASUREMENT OF INTERFERENCE-BASED GONIOCHROMATIC SAMPLES
PO11	Chen, Chien-Yu, TW	DYNAMIC COLOR TEMPERATURE SLEEP ASSISTANT LIGHT IMPLEMENTED ON THE MOBILE DEVICE
PO12	Huang, Hsin-Pou, HK	OPTIMAL TEXT-BACKGROUND LIGHTNESS COMBINATIONS OF TABLET DEVICES FOR VISUAL COMFORT UNDER A WIDE RANGE OF ILLUMINANCE LEVELS
PO13	Sun, Pei-Li, TW	OPTIMIZATION OF TRICHROMATIC WHITE LED SPECTRUM FOR DIM LIGHTING CONDITIONS
PO14	Chung, Ya-Han, TW	AFFECTIVE FEELINGS ASSOCIATED WITH SOAP COLOUR
PO15	Huang, Min, CN	INFLUENCES OF DIFFERENT FIELD SIZES ON COLOR DISCRIMINATION USING THE DISPLAYS WITH DIFFERENT PRIMARY COLORS
PO16	Chienyu, Chen, TW	A STUDY OF HEALTHFUL LIGHTINGS FOR ELDER WITH DEMENTIA
PO17	Ma, Chi-Han, TW	A COMPARISON OF COLOUR APPEARANCE IN VIRTUAL REALITY BETWEEN DIFFERENT SCREEN RESOLUTIONS
PO18	Gu, Chuen Yan, TW	VISUAL IMPRESSION OF SOFA COLOUR
PO19	Nag, Rohan, IN	CONTROLLED SPECTRAL POWER DISTRIBUTION METHOD TO IMPROVE VISUAL ACUITY IN THE MESOPIC AND SCOTOPIC STATES OF VISION, FOR OUTDOOR LIGHTING ...
PO20	Teunissen, Kees, NL	SUMMARY OF WORKSHOP ON MATTERS RELATED TO COLOUR RENDITION
PO21	Li, Jiaye, BE	VALIDATION EXPERIMENT OF COLOR MATCHING FUNCTIONS DERIVED FROM ACHROMATIC MATCHES USING THE ASANO INDIVIDUAL OBSERVER MODEL
PO22	Zhao, Yan, CN	THE INVERSION OF THE CELLULAR YULE-NIELSON SPECTRAL NEUGEBAUER MODEL BASED ON MULTI-ILLUMINANT
PO23	Yamanoi, Yuta, US	FOURTEEN COLOR PLATES WITH SIMILAR COLORS OF BCRA CERAMIC TILES
PO24	Li, Linlu, CN	OPTIMUM WEIGHTS FOR TRISTIMULUS VALUES WITH UNSYMMETRICAL TRIANGLE INSTRUMENTAL FUNCTION
PO25	Sullivan, Chelsea, GB	INVESTIGATION INTO EDGE-LOSS OF TRANSLUCENT MATERIALS BY COMPARING COLORIMETRIC DATA FROM DIFFERENT DEVICES
PO26	Riquelme, Denis, CL	ASSESSMENT OF LED LIGHTING FOR COLOUR DISCRIMINATION AND COLOUR RENDERING

Poster Session 2

PO27 (PP11)	Chen, Siyuan, HK	VIRTUAL AND REAL-WORLD ENVIRONMENTS AFFECT VIRTUAL COLORS IN OPTICAL AND VIDEO SEE-THROUGH AUGMENTED REALITY
PO28 (PP12)	Yoon, Seonyoung, KR	DISPLAY APPEARANCE ACCORDING TO THE SIZE
PO29 (PP13)	Park, Hyunhee, KR	COLOR APPEARANCE OF DISPLAY GLEAM COLORS
PO30 (PP14)	Ahmadian, Kaveh, BE	OPTIMAL SPECTRUM FOR FAMILIAR OBJECTS
PO31 (PP15)	Lu, Yan, GB	PERCEPTUAL DIFFERENCES IN ATTRACTIVENESS, HEALTHINESS AND AGE FOR FACIAL COLOUR APPEARANCE BETWEEN DIFFERENT ETHNIC GROUPS
PO32 (PP16)	Liu, Qiang, CN	COLOUR QUALITY EVALUATION OF CHINESE BROZENWARE IN TYPICAL MUSEUM LIGHTING
PO33 (PP17)	Sun, Pei-Li, TW	PAINTING-LIKE 3D RENDERING BASE ON PHYSICAL APPEARANCE AND DEEP LEARNING
PO34 (PP18)	Lu, Yang, CN	CASE STUDY OF SINGLE-SHOT MULTISPECTRAL IMAGING SYSTEM
PO35 (PP19)	Zhuo, Li, CN	EVALUATION METHODOLOGY OF LIGHT SOURCES FOR LIGHTING CHINESE PAINTINGS BASED ON THE COLOUR DIFFERENCE
PO36 (PP20)	Pan, Jiangen, CN	RESEARCH ON SPECTRAL RESPONSIVITY MEASUREMENT OF SPHERE-PHOTOMETER SYSTEM BASED ON NUMERICAL ANALYSIS
PO37	Puebla, Claudio, DE	ON WHITENESS FORMULAS: THE INFLUENCE OF FLUORESCENCE
PO38	Melgosa, Manuel, ES	USING MUNSELL SOIL COLOR CHARTS IN MARS AND EARTH
PO39	Akiba, Kota, JP	COLOR MATCHING CONSIDERATION ON THE EFFECT OF IPRGC FOR COLOR REPRODUCTION ON DISPLAY DEVICE
PO40	Murakami, Natsuki, JP	EFFECT OF LIGHTING ON READABILITY OF COLOUR PRINTING FOR VARIOUS AGES
PO41	Mizushima, Suzuki, JP	DIFFUSENESS OF ILLUMINATION SUITABLE FOR REPRODUCING THE SURFACE APPEARANCE OF OBJECTS
PO42	Ko, Minjeong, KR	THE EFFECT OF AMBIENT LIGHT REFLECTION TO THE DISPLAY SURFACE ON COLOR APPEARANCE
PO43	Ishiyama, Hiroki, JP	COLOR CONTRIBUTION IN SPONTANEOUS IDENTIFICATION OF COPPER MATERIALS
PO44	Perales, Esther, ES	ESTIMATING A GRAININESS SCALE FROM THE PAIRED-COMPARISON METHOD
PO45	Zhu, Haonan, CN	SIMULATION OF COLOR CONSTANCY ANTAGONISTIC MECHANISM BASED ON ANTAGONISM CONVOLUTION NETWORK
PO46	Liang, Jiong, CN	THE POINT CLOUD DESCRIPTORS' EFFECT ON DIFFERENT 3D MODELS' STITCHING
PO47	Yang, Di, CN	INFLUENCE OF LIGHTING PARAMETERS IN CHINESE PAINTINGS LIGHTING ON VISUAL PREFERENCE IN MUSEUM
PO48	Xia, Guobin, GB	EXPLORING THE STIMULATION OF COLOURED-LIGHTING CONDITIONS IN REAL WORLD ENVIRONMENT AND VIRTUAL REALITY (VR)
PO49	Lin, Ching-Wei, BE	CAN VIRTUAL REALITY HEAD MOUNTED DISPLAYS AND REGULAR 2D DISPLAYS REPRODUCE THE APPEARANCE MODE OF AN OBJECT IN A REAL ROOM?
PO50	Li, Yumei, CN	RESEARCH ON HDR IMAGE TONE COMPRESSION ALGORITHM BASED ON MODIFIED ICAM06
PO51	Yu, Hanui, JP	PSYCHOLOGICAL AND PHYSIOLOGICAL ANALYSIS ON THE EFFECT OF PEACEFULNESS OF MIZUKAGE VIDEOS